

Resource Binder

Grade 12 Biochemistry

Big Ideas

- ✓ Technological applications that affect biological processes and cellular functions are used in the food, pharmaceutical, and medical industries.
- ✓ Biological molecules and their chemical properties affect cellular processes and biochemical reactions.
- ✓ Biochemical compounds play important structural and functional roles in cells of all living organisms.

Overall Expectations

By the end of this course, students will:

- ✓ Analyse technological applications of enzymes in some industrial processes, and evaluate technological advances in the field of cellular biology;
- ✓ Investigate the chemical structures, functions, and chemical properties of biological molecules involved in some common cellular processes and biochemical reactions;
- ✓ Demonstrate an understanding of the structures and functions of biological molecules, and the biochemical reactions required to maintain normal cellular function.

Resource Type	Category	Prepared By
1-Recent Research Development <i>"Post-Modification of the protein TDP-43 leads to neurodegenerative pathology"</i>	Skills of Inquiry and Communication & Relating Science to Technology, Society and the Environment.	Teresa
2- Historical Case Study <i>"The Discovery of DNA and its Controversy"</i>	Skills of Inquiry and Communication & Nature of Science (NOS)	Rinkal
3- Wet Lab <i>"The Case of Catalase"</i>	Basic Concepts of Science & Skills of Inquiry and Communication	Erion
4- Dry Lab <i>"Let DNA tell the Story"</i>	Basic Concepts of Science & Relating Science to Technology, Society and the Environment.	Erion
5- Contemporary Issues-based Case Study <i>"Explore an Issue"</i>	Relating Science to Technology, Society and the Environment.	Ioana
6- Teacher Demonstration <i>"Blood Typing"</i>	Basic Concepts of Science & Relating Science to Technology, Society and the Environment.	Teresa
Summative Test	Assessment	Ioana
PPT for Binder Presentation	N/A	Rinkal